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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/667,301	09/25/2000	Hideo Watanabe	Q60969	1597
75	90 06/07/2004		EXAMINER	
Sughrue Mion Zinn MacPeak & Seas			HUNTER, ALVIN A	
	nia Avenue NW C 20037-3202		ART UNIT PAPER NUMB	
······································			3711	
			DATE MAILED: 06/07/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		09/667,301	WATANABE ET AL.	
	Office Action Summary	Examiner	Art Unit	
	·	Alvin A. Hunter	3711	
Period fo	The MAILING DATE of this communic or Reply	cation appears on the cover sheet v	ith the correspondence address	-
A SHOTHE I - Exter after - If the - If NO - Failu	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIC asions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commu period for reply specified above is less than thirty (30) period for reply is specified above, the maximum state to reply within the set or extended period for reply we ply received by the Office later than three months after patent term adjustment. See 37 CFR 1.704(b).	CATION. 7 37 CFR 1.136(a). In no event, however, may a nication. days, a reply within the statutory minimum of the story period will apply and will expire SIX (6) MO ill, by statute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status				
1)[🛛	Responsive to communication(s) filed	on 27 April 2004.		
•	•	b)☐ This action is non-final.		
3)	Since this application is in condition for closed in accordance with the practice	or allowance except for formal ma	• •	
Dispositi	on of Claims			
5)□ 6)⊠ 7)□	Claim(s) 1.6-12 and 14-18 is/are pend 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) 1.6-12 and 14-18 is/are rejected to. Claim(s) is/are objected to. Claim(s) are subject to restriction	e withdrawn from consideration.		
Applicati	on Papers			
9)□ .	The specification is objected to by the	Examiner.		
10)□	The drawing(s) filed on is/are:	a)☐ accepted or b)☐ objected to	by the Examiner.	
	Applicant may not request that any object	ion to the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
	Replacement drawing sheet(s) including t The oath or declaration is objected to	•	., ,).
Priority u	nder 35 U.S.C. § 119			
a)[Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority d 2. Certified copies of the priority d 3. Copies of the certified copies of application from the Internation ee the attached detailed Office action	ocuments have been received. ocuments have been received in a f the priority documents have been al Bureau (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachment		_		
2) 🔲 Notice 3) 🔲 Inforn	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTo- nation Disclosure Statement(s) (PTO-1449 or P No(s)/Mail Date	O-948) Paper No	Summary (PTO-413) 's)/Mail Date Informal Patent Application (PTO-152) 	

Application/Control Number: 09/667,301

Art Unit: 3711

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 6-12, and 14-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Higuchi et al. (JP 11-253578).

Higuchi et al. discloses a golf ball having favorable carrying characteristics, soft feeling, and excellent spin characteristics. The golf ball comprises a solid core, intermediate layer, and cover. The solid core has a diameter of 28 or more, a deflection (compression) of 3.2 to 5.2mm from applying a load of 130kg to 10kg, and Shore D hardness on the front face of 30 to 55. The specific gravity of the core is less than 1.3. It is noted that the difference of a point measured at random and the front face should be no more than 10 degrees. The intermediate layer is formed of a polyurethane resin as the main material, in which contains a thermoplastic polyurethane elastomer. It is also noted that the polyurethane may be blended with materials such as polyamide, polyester, ionomer, etc. The cover has a Shore D hardness of 45 to 68. Higuchi et al. notes that polyester was used to produce the polyurethane of the intermediate layer. The intermediate layer also has a Shore D hardness of 20 to 50, a thickness of 0.5 to 2.5mm, a specific gravity of 1.1 or more, and a deflection (compression) of 3.2 to 5.2mm from applying a load of 130 kg to 10kg. One having ordinary skill in the art would have

Application/Control Number: 09/667,301

Art Unit: 3711

found it obvious to have a ratio between the compression of the core and intermediate layer of any value, in particular approximately 1, as taught by Higuchi et al., in order to obtain a golf ball having good feel and flight distance.

Response to Arguments

Applicant's arguments filed April 27, 2004 have been fully considered but they are not persuasive. Applicant argues that Higuchi et al. fails to teach a thermoplastic elastomer selected from the group consisting of polyester, polyamide, polyolefin, and polystyrene and that Higuchi et al. does not teach a compression ratio between the intermediate layer and core. The examiner respectfully disagrees.

Higuchi et al. discloses a polyurethane elastomer having a polyester system. Applicants claim one was given its broadest reasonable interpretation, which was a thermoplastic elastomer selected from the group consisting of "a polyester based or type" elastomer. Applicant does not claim the group to be from a polyester elastomer, polyamide elastomer, polyolefin elastomer, or polystyrene elastomer; only that the thermoplastic elastomer be from a group consisting of polyester, polyamide, polyolefin, and polystyrene. Therefore, it is believe that the rejection above is proper.

In regards to the compression ratio, Higuchi et al. discloses the compression of the core being 3.2 to 5.2mm and the intermediate layer having a compression of 3.2 to 5.2mm. It is clearly apparent that the ratio between the two layers are at least one when both have deflection at the lower limits of the range, and one having ordinary skill in the art would have seen that the compression ratio is implicitly taught by Higuchi et al. Therefore, it is submitted that prima-facie obviousness has been establish.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alvin A. Hunter whose telephone number is 703-306-5693. The examiner can normally be reached on Monday through Friday from 7:30AM to 4:00PM Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Vidovich, can be reached on 703-308-1513. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Application/Control Number: 09/667,301 Page 5

Art Unit: 3711

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HAA

Alvin A. Hunter, Jr.

GREGORY WIDOVICH SUPERVISORY RATENT EXAMINER TECHNOLOGY CENTER 3700